Lake

Syst m and M thod for R ducing M mory L aks in Virtual Machine Programs

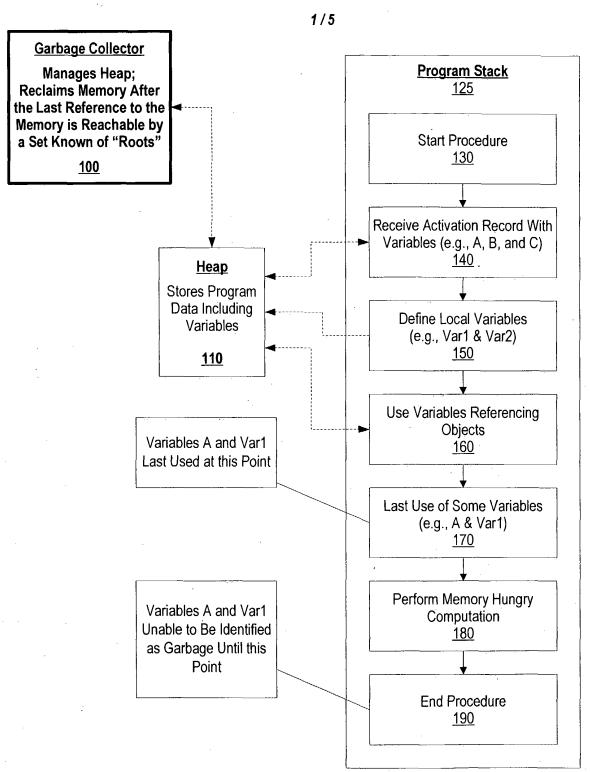
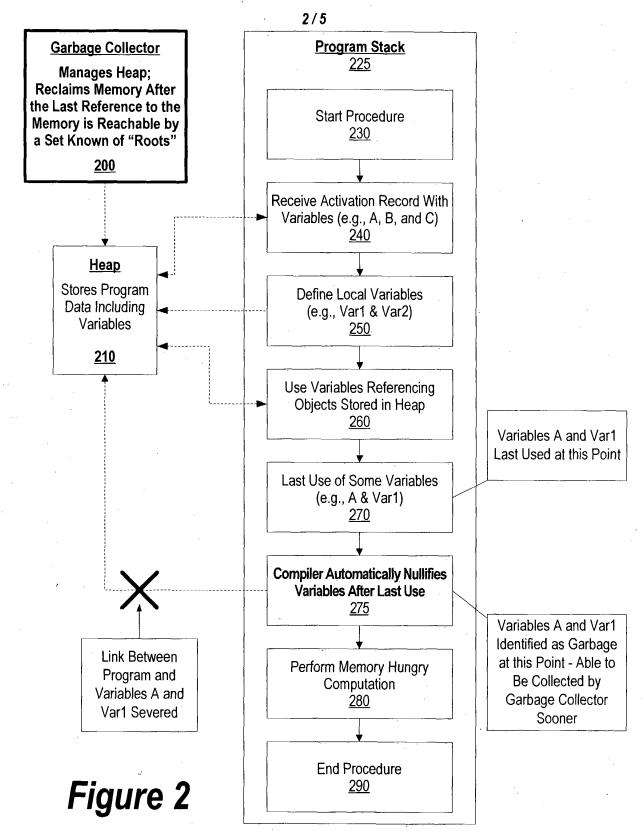


Figure 1 (prior art)

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Syst m and Method for Reducing Memory L aks in Virtual Machine Programs

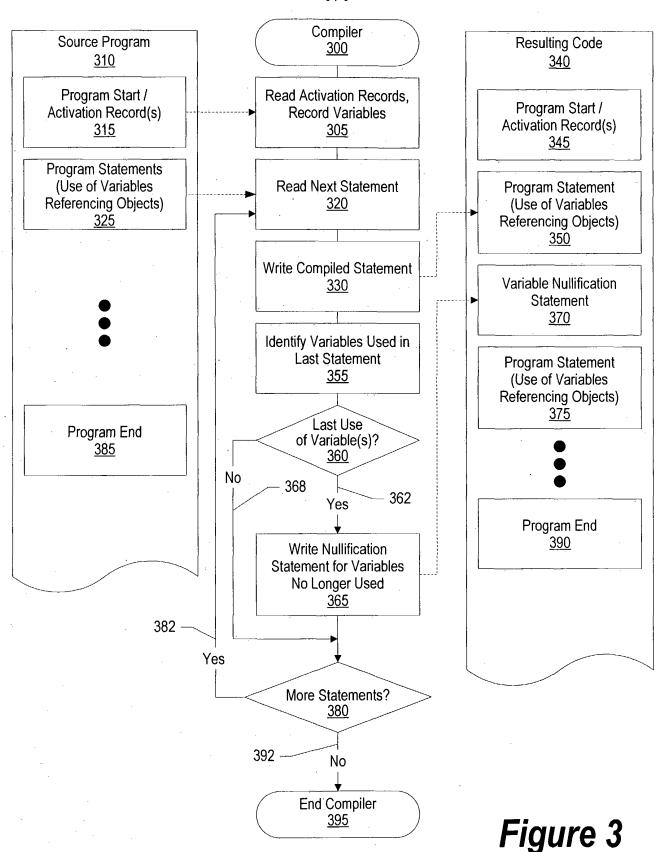


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```
Example of a Java Program Before Automatically Nullifying Unused References
public void procl(Arg param1, Arg param2; Arg param3){
      Typel value1 = param1.(param2.anInstVar);
       Type2 value2 = param1.fn(value1);
       <no other use of paraml or valuel in the remainder of the procedure>
       param2.memoryHungryComputation(value2, param3);
                                 Java JIT Compiler
                                       <u>450</u>
       Example of the Same Java Program After Automatically Nullifying Unused References
                                       <u>460</u>
public void proc1(Arg param1, Arg param2; Arg param3){
       Type1 value1 = param1.(param2.anInstVar);
       Type2 value2 = param1.fn(value1);
       param1 = null; value1 = null;
       <no other use of paraml or value1 in the remainder of the procedure>
       param2.memoryHungryComputation(value2, param3);
```

Figure 4

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